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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | | |
|----------------------|-----------------|----------------------|---------------------|----------------------------------|--|--|
| 09/957,415 | 09/20/2001 | Scott Thomas Elliott | RPS9 2001 0044 | 3264 | | |
| 47052 | 7590 02/11/2005 | | EXAMINER | | | |
| SAWYER LAW GROUP LLP | | | CHAI, LONGBIT | | | |
| PO BOX 5141 | 8 | • | | | | |
| PALO ALTO, | CA 94303 | | ART UNIT | PAPER NUMBER | | |
| • | | | 2131 | 2131 DATE MAIL ED. 02/11/2005 | | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application | on No. | Applicant(s) | | | | |
|---|---|---|--|--|--------|--|--|--|
| Office Action Summary | | 09/957,41 | 5 | ELLIOTT ET AL. | | | | |
| | | Examiner | | Art Unit | | | | |
| | | Longbit C | hai | 2131 | | | | |
| Period fo | The MAILING DATE of this communi or Reply | ication appears on the | cover sheet with th | e correspondence address - | •• | | | |
| A SH THE - Exte after - If the - If NC - Failu Any | ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNI Insions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply specified above is less than thirty (30) period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months a end patent term adjustment. See 37 CFR 1.704(b). | CATION. of 37 CFR 1.136(a). In no evenunication. O) days, a reply within the state attory period will apply and wiwill, by statute, cause the app | ent, however, may a reply be utory minimum of thirty (30) Il expire SIX (6) MONTHS fr lication to become ABANDO | e timely filed days will be considered timely. rom the mailing date of this communica DNED (35 U.S.C. § 133). | ation. | | | |
| Status | | | | | | | | |
| 1)⊠ | Responsive to communication(s) file | d on <u>1/14/2002</u> . | | | | | | |
| 2a) <u></u> ☐ | This action is FINAL . | 2b)⊠ This action is n | on-final. | | | | | |
| 3) | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| Disposit | ion of Claims | | | | | | | |
| 5)□ 6)⊠ 7)□ | Claim(s) 1-19 is/are pending in the a 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-19 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict | re withdrawn from co | | | | | | |
| Applicat | ion Papers | | | | | | | |
| 10)⊠ | The specification is objected to by the The drawing(s) filed on <u>20 September</u> Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to | er 2001 is/are: a) \boxtimes action to the drawing(s) to the correction is require | ne held in abeyance. ed if the drawing(s) is | See 37 CFR 1.85(a). objected to. See 37 CFR 1.12 | | | | |
| Priority | under 35 U.S.C. § 119 | | • | | | | | |
| a) | Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation See the attached detailed Office action | documents have bee documents have bee of the priority documental and Bureau (PCT Rul | en received. en received in Applic ents have been rece e 17.2(a)). | cation No eived in this National Stage | | | | |
| Attachmer | nt(s) | | | | | | | |
| | ce of References Cited (PTO-892) | | 4) Interview Summ | ary (PTO-413) | | | | |
| 2) Noti | ce of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449 or er No(s)/Mail Date <u>9/20/2001</u> | | Paper No(s)/Ma | | | | | |

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DETAILED ACTION

Priority

1. No claim for priority has been made in this application.

The effective filing date for the subject matter defined in the pending claims in this application is 9/20/2001.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A person shall be entitled to a patent unless -

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ansell (Patent Number: 6792113), hereinafter referred to as Ansell, in view of Christensen (Patent Number: 2002/0071559), hereinafter referred to as Christensen.

As per claim 1, 7 and 16, Ansell teaches a method for control of key pair usage in a computer system, the method comprising:

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Ansell teaches creating key pair material and determining whether the key pair material is bound to the hardware ID (i.e. machine binding) (Ansell: se for example, Figure 3B Element 140, 2404 & 308 and Column 2 Line 33 – 64 and Column 10 Line 10 – 25).

Ansell further teaches the security key pair can be associated with either the type of a machine-binding (i.e. binding with HW ID) data structure (Ansell: se for example, Figure 3B) or the type of a user-binding (i.e. non-binding with HW ID) data structure (Ansell: se for example, Figure 3A).

Ansell does not disclose expressly creating key pair material for utilization with an embedded security chip of the computer system.

Christensen teaches creating key pair material for utilization with an embedded security chip of the computer system (Christensen: see for example, Paragraph [0245] and [0252] Line 1 – 4: Christensen teaches the secured HW ID can be stored in the embedded chip).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Christensen within the system of Ansell because (a) Ansell teaches the machine-binding hardware ID is used for the decryptor and is stored as read-only data (Ansell: see for example, Figure 3B Element 140 & 308 and Column 6 Line 5 - 12) and (b) Christensen teaches providing a mechanism by storing the encryption / decryption key in a silicon chip with the advantage that the decryption key is never exposed to the receiver (Christensen: see for example, Paragraph [0001] Line 7 - 8 and Paragraph [0255] Line 1 - 2).

Accordingly, Ansell in view of Christensen teaches:

- (a) creating key pair material for utilization with an embedded security chip of the computer system, the key pair material including tag data (Examiner notes the tag data is interpreted as the indicator to identify the passport data structure as either the type of a machine-binding structure or the type of a user-binding data structure for the associated key pairs as addressed above and thereby, the indicator can indeed serve as the desired tag bit).
- (b) determining whether the key pair material is bound to the embedded security chip based on the tag data (See the same rationale as addressed above).

As per claim 2, 9 and 17, Ansell in view of Christensen teaches the claimed invention as described above (see claim 1, 8 and 16 respectively). Ansell further teaches comprising a bit to indicate whether binding is required for the key pair material (Ansell: se for example, Figure 3B & 3A: Ansell teaches the security key pair can be associated with either the type of a machine-binding (i.e. binding with HW ID) data structure (Ansell: se for example, Figure 3B) or the type of a user-binding (i.e. non-binding with HW ID) data structure (Ansell: se for example, Figure 3A) and thereby using a bit is equivalent to the indicator that the security private key is associated with either one of the presented two different types of binding structure as taught by Ansell).

As per claim 3 and 11, Ansell in view of Christensen teaches the claimed invention as described above (see claim 1 and 7 respectively). Ansell further teaches

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creating key pair material further comprises creating key pair material of different levels (Ansell: see for example, Figure 3A & 3B: (a) hardware ID key pair in the machinebinding passport data structure (Figure 3B Element 140) is qualified as a hardware key pair level) (b) machine-binding private key in the machine-binding passport data structure (Figure 3B Element 304) is qualified as a platform key pair level (c) user private key in the user-binding passport data structure (Figure 3A Element 304) is qualified as user key pair level and (d) content master key (i.e. application key) is qualified as a credential key pair level).

As per claim 4, 5, 12 and 13, Ansell in view of Christensen teaches the claimed invention as described above (see claim 3, 4, 11 and 12 respectively). Ansell further teaches the four levels further comprise a hardware key pair level, a platform key pair level, a user key pair level, and a credential key pair level (Ansell: see for example, Figure 3A & 3B: the four levels are (a) hardware ID key pair in the machine-binding passport data structure (Figure 3B Element 140) is qualified as a hardware key pair level) (b) machine-binding private key in the machine-binding passport data structure (Figure 3B Element 304) is qualified as a platform key pair level (c) user private key in the user-binding passport data structure (Figure 3A Element 304) is qualified as user key pair level and (d) content master key (i.e. application key) is qualified as a credential key pair level).

As per claim 6 and 14, Ansell in view of Christensen teaches the claimed invention as described above (see claim 5 and 13 respectively). Ansell further teaches including tag data further comprises including a tag for indicating binding is required for the platform key pair level (Ansell: see for example, Column 10 Line 19 – 25 and Column 2 Line 33 – 64: the set tag bit for machine-binding private key (interpreted as the platform key) bound to the embedded security chip is equivalent to the indicator associated with the machine-binding passport data structure for respective private key).

As per claim 8, Ansell in view of Christensen teaches the claimed invention as described above (see claim 7). Ansell further teaches comprising means for security setup to provide an interface on the computer system for administration of the security processor, including providing the tag data (Ansell: see for example, Column 6 Line 16 – 18).

As per claim 10, Ansell in view of Christensen teaches the claimed invention as described above (see claim 7). Ansell in view of Christensen further teaches the security processor includes memory for storing the key pair material (Ansell: see for example, Column 8 Line 28 - 31) and (Christensen: see for example, Paragraph [0245] and [0252] Line 1 - 4).

As per claim 15, Ansell in view of Christensen teaches the claimed invention as described above (see claim 14). Ansell further teaches the key pair material further

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comprises a tag to indicate binding is not required for the user key pair level (Ansell: see for example, Figure 3A & Figure 3B: the indicator (tag bit) for the user private key is inherent to be reset (OFF) as taught by Ansell because the 3rd level of user private key is transparent to (i.e. not dependent on) the 1st level of HW ID (i.e. embedded security chip level).

As per claim 18, Ansell in view of Christensen teaches the claimed invention as described above (see claim 17). Ansell further teaches utilizing the reset tag bit with a user key pair level in the hierarchical structure to allow user key pairs to be verified securely on more than one computer system (Ansell: see for example, Figure 3A & Figure 3B: the indicator (tag bit) for the user private key is inherent to be reset (OFF) as taught by Ansell because the 3rd level of user private key is transparent to (i.e. not dependent on) the 1st level of HW ID (i.e. embedded security chip level) and thereby, it allows user key pairs to be verified securely on more than one computer system – i.e. there is no binding with a particular machine / HW ID).

As per claim 19, Ansell in view of Christensen teaches the claimed invention as described above (see claim 18). Ansell further teaches utilizing the set tag bit with a platform key pair level in the hierarchical structure to allow a platform key pair to be verified only on a computer system where binding with the embedded security chip is established (Ansell: see for example, Column 2 Line 33 – 64 and Figure 3B: the machine binding private key (interpreted as the platform key) with the indicator

associated with the machine binding passport data structure allows a platform key pair to be verified only on a computer system where binding with a particular HW ID).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Longbit Chai whose telephone number is 571-272-3788. The examiner can normally be reached on Monday-Friday 8:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Longbit Chai Examiner Art Unit 2131

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